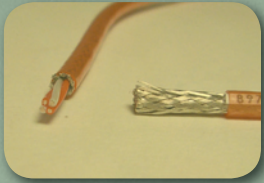


# PRECISION Bulk Cables



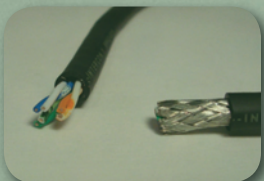
Discrete  
Page 1



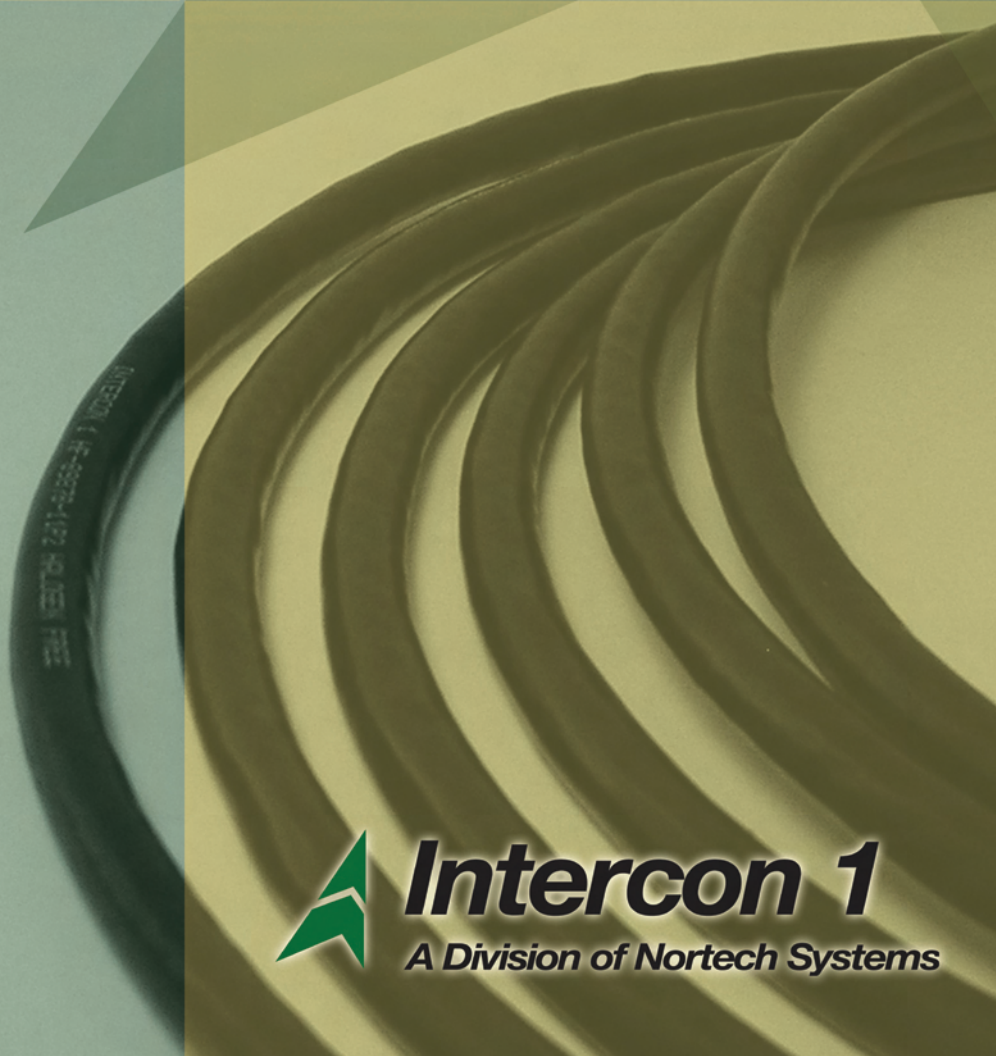
Coaxial  
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**Intercon 1**

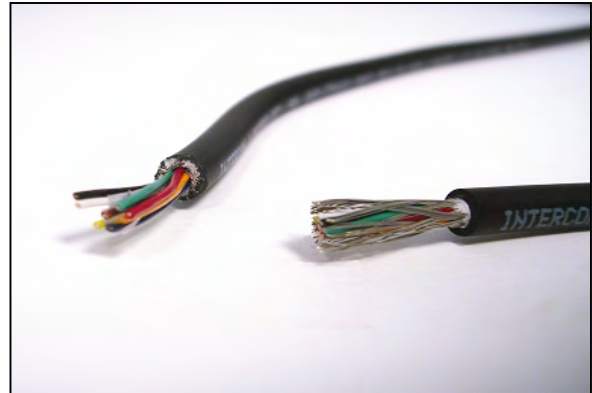
*A Division of Nortech Systems*

## 89253A

### Product Outline

The multiple conductors as well as the small OD provide an excellent solution for control and instrumentation cables.

The 19/40 stranding combined with a supple PVC compound create a pliable solution that increases both flex life and usability on the production line and in the field.



### Features

8 Conductor Cable	
Jacket	PVC
Overall Diameter	.183 inches
Overall Shield	Braid - 85% Min. Coverage
RoHS Status	Compliant
Minimum Bend Radius	2.745 inches
UL Rating	No
Jacket Color	Black Matte
Discrete Color Code	Brown, White, Yellow, Blue, Orange, Red, Green, Black
Gauge	28 AWG
Stranding	19/40 TC
Insulation	PVC
Conductor OD	.034 inches

### Ordering Information

Order No.	Description
89253A-31-C	Standard 31 Meter Spool
89253A-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89253A, please contact Customer Service.

## 89493

### Product Outline

This nine conductor 24 gauge cable offers electrical performance as well as rugged durability.

Overall shielding protects your information and ensures accuracy through noisy environments. The tape/braid shield offers protection from a wide variety of frequencies.



### Features

9 Conductor Cable	
Jacket	PVC
Overall Diameter	.255 inches
Overall Shield	Braid - 65% Min. Coverage / Alum. Tape 100% Coverage
RoHS Status	Compliant
Minimum Bend Radius	3.825 inches
UL/CSA	Yes
Flame Rating	FT1
Jacket Color	Black
Discrete Color Code	White, Red, Green, Brown, Blue, Orange, Yellow, Violet, Black
Voltage	300V
Max Operating Temp	80 degrees Celsius
Gauge	24 AWG
Stranding	7/34 TC
Insulation	PVC
Conductor OD	.043 inches

### Ordering Information

Order No.	Description
89493-31-C	Standard 31 Meter Spool
89493-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89493, please contact Customer Service.



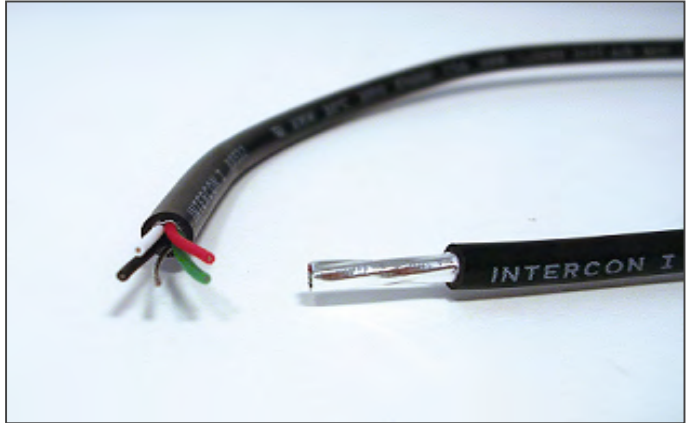
## 89532

### Product Outline

This four conductor 26 gauge cable offers a solution for a variety of applications such as triggering, control, and power.

The small overall diameter ensures usability in the tightest of spaces.

The dual aluminum shield provides superior protection against loss. The drain wire provides a simple and effective way to terminate the ground of assemblies.



### Features

4 Conductor Cable	
Jacket	PVC
Overall Diameter	.185 inches
Overall Shield	Dual Aluminum Tape - 100% Min. Coverage
RoHS Status	Not Compliant
Minimum Bend Radius	2.775 inches
UL Rated	Yes
Jacket Color	Black
Discrete Color Code	White, Black, Red, Green
Voltage	300V
Max Operating Temp	20 degrees Celsius
Gauge	26AWG
Stranding	7/36 TC
Insulation	Polyethylene
Conductor OD	0.41 inches
Drain Conductor AWG	26 AWG

### Ordering Information

Order No.	Description
89532-31-C	Standard 31 Meter Spool
89532-C	Custom length spool measured in feet.

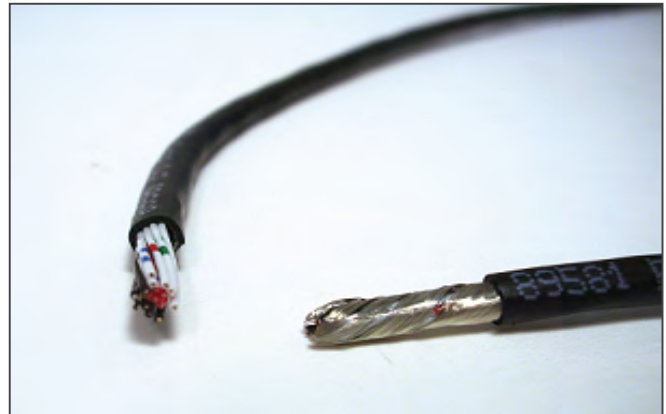
For standard or custom cable assemblies fabricated with 89532, please contact Customer Service.

## 89581

### Product Outline

This 15 conductor cable offers durability in a compact size. The TPE jacket increases flexibility while protecting against outside elements such as water, oil, abrasion, temperature, and chemicals.

The overall shielding increases performance, reliability, and versatility.



### Features

15 Conductor Cable	
Jacket	Thermoplastic Elastomer - TPE
Overall Diameter	.165 inches
Overall Shield	Braid
RoHS Status	Compliant
Minimum Bend Radius	2.475 inches
Rated	No
Jacket Color	Black
Discrete Color Code	White, Wht/Grn, Wht/Red, Wht/Blue, Wht/Blk, Black, Blk/Wht, Blk/Grn, Blk/Red, Blk/Ylw, Red, Red/Blue, Red/Ylw, Red/Wht, Red/Blk
Voltage	30V
Max Operating Temp	105 degrees Celsius
Gauge	30 AWG
Stranding	7/38 TC
Insulation	Polyethylene
Conductor OD	.026 inches

### Ordering Information

Order No.	Description
89581-31-C	Standard 31 Meter Spool
89581-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89581, please contact Customer Service.

## 89694

### Product Outline

This unique five conductor cable is suited for a variety of applications.

The High-Flex design ensures constant electrical performance in high flex applications.

Spiral shielding with 90% minimum coverage ensures electrical performance.



### Features

5 Conductor Cable	
Jacket	Polyurethane
Overall Diameter	.195 inches
Overall Shield	Spiral - 90% Min Coverage
RoHS Status	Not Compliant
Minimum Bend Radius	1.95 inches
Rated	No
Jacket Color	Black
22 AWG Color Code	White, Black
24 AWG Color Code	Orange, Red, Green
Voltage	300V
Max Operating Temp	80 degrees Celsius

3 24 AWG Wires	
Gauge	24 AWG
Stranding	7/32 TC
Insulation	PVC
Conductor OD	.045 inches

2 22 AWG Wires	
Gauge	22 AWG
Stranding	7/30 TC
Insulation	PVC
Conductor OD	.050 inches

### Ordering Information

Order No.	Description
89694-31-C	Standard 31 Meter Spool
89694-C	Custom length spool measured in feet.

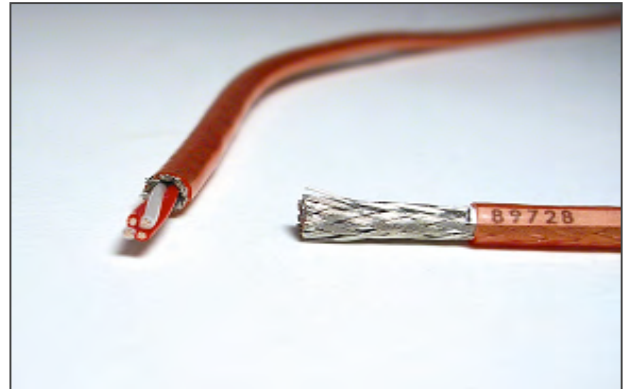
For standard or custom cable assemblies fabricated with 89694, please contact Customer Service.

## 89728

### Product Outline

This 24 gauge cable combines performance with durability to form a complete electrical and mechanical solution.

The teflon jacketing provides exceptional protection through high temperatures, chemicals, abrasion, water and other outside elements.



### Features

4 Conductor Cable	
Jacket	FEP
Overall Diameter	.151 inches
Overall Shield	Braid - 85% Min Coverage Alum/Polyester Tape 20% Overlap
RoHS Status	Compliant
Minimum Bend Radius	2.265 inches
Rated	UL
Flame Rating	Article 800 of NEC
Jacket Color	Red
Discrete Color Code	Red, Red, White, White
Voltage	150 V
Max Operating Temp	125 degrees Celsius
Gauge	24 AWG
Stranding	7/32 TC
Insulation	FEP
Conductor OD	.038 inches

### Ordering Information

Order No.	Description
89728-31-C	Standard 31 Meter Spool
89728-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89728, please contact Customer Service.

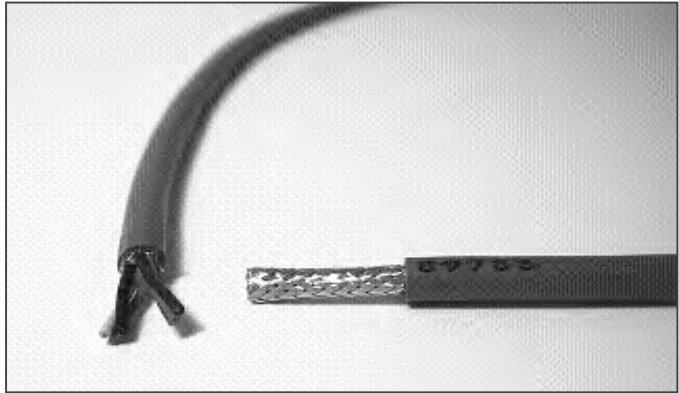
## 89783

### Product Outline

This five conductor 28 gauge cable is at home in a wide variety of applications from power to control, to RS232 signals.

The small overall diameter and the supple design allow for numerous applications.

A high strand count provides a high flex life and additional versatility in robotic and other strenuous applications.



### Features

5 Conductor Cable	
Jacket	PVC
Overall Diameter	.160 inches
Overall Shield	Braid - 90% Coverage
RoHS Status	Not Compliant
Minimum Bend Radius	1.60 inches
Ratings	UL
Flame Rating	VW-1
Jacket Color	Gray
Discrete Color Code	Black, Brown, Orange, Red, Yellow
Voltage	30V
Max Operating Temp	60 degrees Celsius
Gauge	28 AWG
Stranding	40/44 TC
Insulation	PVC
Conductor OD	.035 inches

### Ordering Information

Order No.	Description
89783-31-C	Standard 31 Meter Spool
89783-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89783, please contact Customer Service.

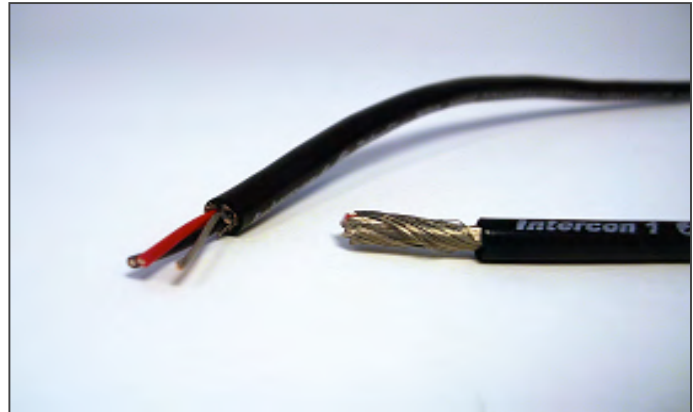


## 89916

### Product Outline

This high flex power cable combines a double overall shield along with a drain wire to create a dependable solution for data or power applications.

The large gauge size and the increased shielding allows this cable to be used in carrying signals over longer distances.



### Features

2 Conductor Cable	
Jacket	PVC
Overall Diameter	.190 inches
Overall Shield	Double Reverse Spiral - 90% Min Coverage
Drain Wire	22 AWG TC
RoHS Status	Not Compliant
Minimum Bend Radius	1.90 inches
UL Rated	Yes
Jacket Color	Black
Discrete Color Code	Black, Red
Voltage	300V
Max Operating Temp	105 degrees Celsius
Gauge	22 AWG
Stranding	19/36 TC
Insulation	PVC
Conductor OD	.050 inches

### Ordering Information

Order No.	Description
89916-31-C	Standard 31 Meter Spool
89916-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89916, please contact Customer Service.

## 89984

### Product Outline

This 22 gauge cable offers a variety of features including high voltage capabilities and high temperature ratings to increase versatility and performance in a wide variety of applications.



### Features

8 Conductor Cable	
Jacket	PVC
Overall Diameter	.240 inches
Overall Shield	NA
RoHS Status	Compliant
Minimum Bend Radius	3.6 inches
UL Rated	Yes
Flame Rating	FT1
Jacket Color	Black Matte
Discrete Color Code	Black, Red, Blue, Orange, Green, Brown, White, Yellow
Voltage	300V
Max Operating Temp	105 degrees Celsius
Gauge	22 AWG
Stranding	7/30 TC
Insulation	PVC
Conductor OD	.050 inches

### Ordering Information

Order No.	Description
89984-31-C	Standard 31 Meter Spool
89984-C	Custom length spool measured in feet.

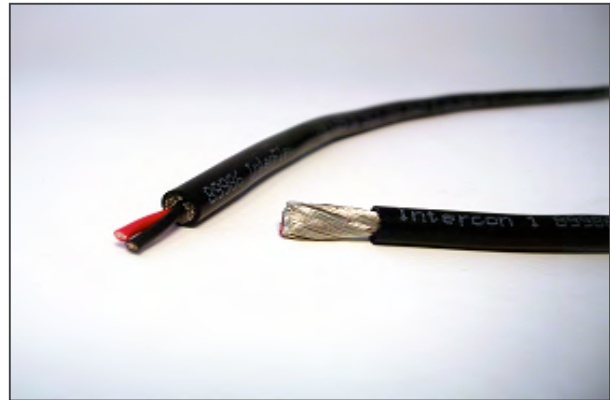
For standard or custom cable assemblies fabricated with 89984, please contact Customer Service.

## 89986

### Product Outline

This high flex power cable combines a double overall shield along with a drain wire to create a dependable solution for data or power applications.

The large gauge size as well as the exceptional shielding allow this cable to continue to perform over long distances and in noisy environments.



### Features

2 Conductor Cable	
Jacket	PVC
Overall Diameter	.230 inches
Overall Shield	Double Reverse Spiral - 90% Min. Coverage
Drain Wire	18 AWG TC
RoHS Status	Not Compliant
Minimum Bend Radius	2.30 inches
UL / CSA Rated	Yes
Flame Rating	FT-4
Jacket Color	Black
Discrete Color Code	Red, Black
Voltage	300V
Max Operating Temp	105 degrees Celsius
Gauge	18 AWG
Stranding	65/36 TC
Insulation	SR-PVC
Conductor OD	.070 inches

### Ordering Information

Order No.	Description
89986-31-C	Standard 31 Meter Spool
89986-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89986, please contact Customer Service.

## 89987

### Product Outline

This high flex power cable combines a double overall shield along with a drain wire to create a dependable solution for data or power applications.

The large gauge size as well as the exceptional shielding allow this cable to continue to perform over long distances and in noisy environments.

The four conductors allow versatility for additional power lines or data transmission.



### Features

4 Conductor Cable	
Jacket	PVC
Overall Diameter	.260 inches
Overall Shield	Double Reverse Spiral - 90% Min Coverage
Drain Wire	18AWG TC
RoHS Status	Not Compliant
Minimum Bend Radius	2.60 inches
UL / CSA Rated	Yes
Flame Rating	FT-4
Jacket Color	Black
Discrete Color Code	Red, White, Black, Green
Voltage	300V
Max Operating Temp	105 degrees Celsius
Gauge	18 AWG
Stranding	65/36 TC
Insulation	PVC
Conductor OD	.070 inches

### Ordering Information

Order No.	Description
89987-31-C	Standard 31 Meter Spool
89987-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89987, please contact Customer Service.

## 90070-02

### Product Outline

This cable is a supple solution for carrying power and ground. The large conductor gauge allows for greater distances to be achieved.

The small overall diameter along with increased pliability allow for a tight bend radius and creates a cable that is both easy to terminate on the line and easy to handle in the end application.



### Features

2 Conductor Cable	
Jacket	PVC
Overall Diameter	.170 inches
Overall Shield	NA
RoHS Status	Compliant
Minimum Bend Radius	2.55 inches
UL/CSA Rated	Yes
Flame Rating	FT1
Jacket Color	Black
Discrete Color Code	Red, Black
Voltage	300V
Max Operating Temp	105 degrees Celsius
Gauge	22 AWG
Stranding	19/36 TC
Insulation	PVC
Conductor OD	.050 inches

### Ordering Information

Order No.	Description
90070-02-31-C	Standard 31 Meter Spool
90070-02-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 90070-02, please contact Customer Service.



## 90070-04

### Product Outline

This supply four conductor cable is a great solution for carrying signals or power over long distances.

The four lines can easily be tied together for transmitting power and ground over long distances or remain isolated to conduct multiple signals.



### Features

4 Conductor Cable	
Jacket	PVC
Overall Diameter	.202 inches
Overall Shield	NA
RoHS Status	Compliant
Minimum Bend Radius	3.03 inches
UL/CSA Rated	Yes
Flame Rating	FT1
Jacket Color	Black
Discrete Color Code	Brown, White, Black, Blue
Voltage	300V
Max Operating Temp	105 degrees Celsius
Gauge	22 AWG
Stranding	19/36 TC
Insulation	PVC
Conductor OD	.050 inches

### Ordering Information

Order No.	Description
90070-04-31-C	Standard 31 Meter Spool
90070-04-C	Custom length spool measured in feet.

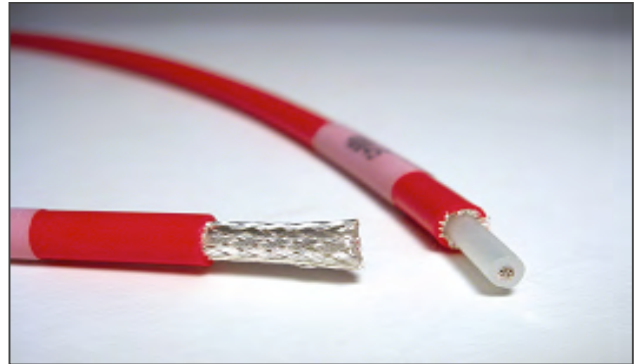
For standard or custom cable assemblies fabricated with 90070-04, please contact Customer Service.

## 90045

### Product Outline

This single conductor cable was designed specifically for carrying power over long distances.

The unique double insulation design protects against loss and ensures reliability through electrically noisy environments.



### Features

Single Conductor Cable	
Jacket	Polyethylene
Overall Diameter	.195 inches
Overall Shield	Braid - 90% Min Coverage
RoHS Status	Compliant
Minimum Bend Radius	2.925 inches
UL Style	NA
Flame Rating	NA
Jacket Color	Red
Gauge	16 AWG
Stranding	19/29 Silver Plated Copper
Insulation	Polyethylene
Conductor OD	.120 inches

### Ordering Information

Order No.	Description
90045-31-C	Standard 31 Meter Spool
90045-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 90045, please contact Customer Service.

## Single Coaxial - 88555

### Product Outline

This rugged high performance coax cable is designed for demanding applications that require precise video transmission.

The 75 Ohm conductor offers a controlled impedance of +/- 3 Ohms for the highest quality of video signal.

The solid conductor offers additional benefits of minimal loss over longer distances and ease of termination.

The non contaminating jacket provides application versatility and allows for use in medical environments.



### Features

1 Coaxial Conductor Cable	
Jacket	Non Contaminating PVC
Overall Diameter	.241 inches
Jacket Color	Blue
RoHS Status	Compliant
Minimum Bend Radius	3.62 inches
UL Style	AWM 1354
Voltage	30V
Max Operating Temp	60 degrees Celsius
Gauge	23 AWG
Coax Style	Solid
Insulation	Low Density Polyethylene
Shielding	Braid - 95% Min Coverage
Conductor OD	.145 inches
Impedance	75 Ohm +/- 3 Ohms

### Ordering Information

Order No.	Description
88555-31-C	Standard 31 Meter Spool
88555-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 88555, please contact Customer Service.

## S-Video - Dual Coaxial Cable - 89273A

### Product Outline

This dual, side-by-side, 75 Ohm precision controlled-impedance coaxial cable provides accurate signal transmission with a tolerance of +/- 4 Ohms to ensure high-quality video images. The 26 AWG TC core with 64/44 stranding withstands repeated flexing and abuse without sustaining mechanical or electrical failure. The dual coaxial conductors in this cable separate easily at the outer jacket without excessive residue, allowing convenient handling on the assembly line and in the field.



This rugged cable incorporates dual coaxial, "Y/C" construction to guarantee proper separation of the monochrome "Y" signals and the improved blending of the Color "C" signals thereby producing a superior image to a traditional composite cable. This robust construction and flat design make it ideal for industrial, medical, commercial, and scientific applications.

### Features

Cable	
Jacket	PVC
Overall Diameter	.115 in x .232 in
RoHS Status	Compliant
Minimum Bend Radius	1.15 inches
UL Style	AWM 2552
Flame Rating	VW-1
Jacket Color	Black
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 2 Coax Conductors	
Gauge	26 AWG
Stranding	64/44 TC
Insulation	Foamed PE
Shielding	Spiral - 90% Min Coverage
Impedance	75 Ohms +/- 4 Ohms
Diameter	.068 inches

### Ordering Information

Order No.	Description
89273A-31-C	Standard 31 Meter Spool
89273A-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89273A, please contact Customer Service.

# Coaxial Cable

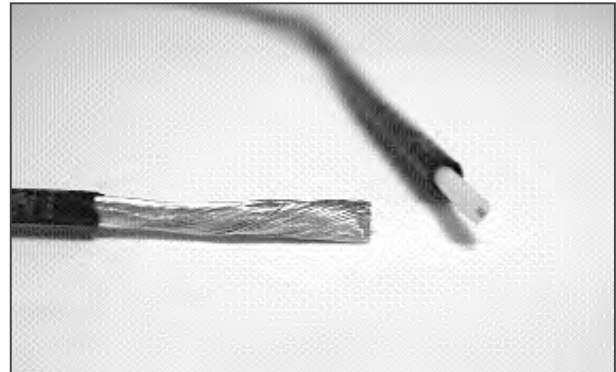
## 89661-0

### Product Outline

This high performance 75 Ohm coax cable offers superior quality inside of a small overall diameter.

The controlled impedance of +/- 4 Ohms allows this cable to perform over longer distances while transmitting high quality video images.

The small overall diameter makes this cable uniquely suited for breakout assemblies that require several cables to fit within a common strain relief.



### Features

Single Coaxial Cable	
Jacket	PVC
Overall Diameter	.077 inches
Overall Shield	Spiral - 90% Min. Coverage
RoHS Status	Compliant
Minimum Bend Radius	1.155 inches
UL Style	AWM 1354
Flame Rating	VW-1
Jacket Color	Black
Voltage	30V
Max Operating Temp	80 degrees Celsius
Gauge	30 AWG
Stranding	7/38 BC
Insulation	Polyethylene
Conductor OD	.053 inches
Impedance	75 Ohms

### Ordering Information

Order No.	Description
89661-0-31-C	Standard 31 Meter Spool
89661-0-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89661-0-C, please contact Customer Service.



# Composite Cable

## Remote Head Cable - 88438-FLEX

### Product Outline

This overall shielded composite cable combines versatility and capability in a small, high flex cable.

Designed to surpass 1 million flex cycles, this cable is the complete solution for demanding applications that require both durability and high quality video.

Commonly used to interface remote camera heads to control units, this cable has proven its performance and reliability.



### Features

Cable	
Jacket	PVC
Overall Diameter	.233 inches
Overall Shield	Double Reverse Spiral - 70% Min. Coverage
RoHS Status	Not Compliant - Compliant versions are available
Minimum Bend Radius	2.3 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Black
Coax Color Code	Nat, Wht, Grn, Blu, Gry, Vio, Red, Brn, Blk
Discrete Color Code	Nat, Yel, Org, Red, Blk, Blu
Voltage	30V
Max Operating Temp	60 degrees Celsius

Conductor – 6 Discrete Wires	
Gauge	26 AWG
Stranding	28/40 TC
Insulation	FEP
OD	0.031 inches

Conductor – 9 Coax Conductors	
Gauge	32 AWG
Stranding	7/40 TCB
Insulation	FEP
Shielding	Spiral - 90% Min Coverage
Impedance	50 Ohms
Diameter	.037 inches

### Ordering Information

Order No.	Description
RHC-31-C	Standard 31 Meter Spool
RHC-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 88438-FLEX, please contact Customer Service.

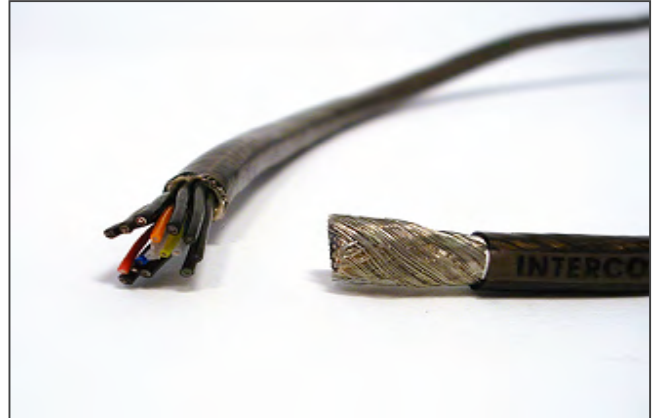
## 88438-TFEP

### Product Outline

This shielded composite cable combines versatility and capability in a small, high flex cable encased in a rugged teflon jacket.

The teflon jacket provides increased protection from extreme conditions such as abrasion, water, oil, high temperatures, flexing.

PVC versions are available.



### Features

Cable	
Jacket	FEP
Overall Diameter	.227 inches
Overall Shield	Double Reverse Spiral
RoHS Status	Non Compliant
Minimum Bend Radius	2.27 inches

6 Primary Wires	
Gauge	26 AWG
Stranding	28/40 TC
Insulation	FEP
Diameter	.031 inches

Color Code	
Primary Wires	Coax Conductors
Natural, Blue, Black, Red, Orange, Yellow	Natural, White, Green, Blue, Gray, Violet, Red, Brown, Black

9 Coax Conductors	
Gauge	32 AWG
Stranding	7/40 TCB
Insulation	FEP
Shielding	42 AWG Spiral - 90% Min Coverage
Diameter	.037 inches
Impedance	50 Ohms

### Ordering Information

Order No.	Description
88438TFEP-31-C	Standard 31 Meter Spool
88438TFEP-C	Custom length spool measured in feet.

Standard and Custom assemblies are available. Please contact customer service for details.

# Composite Cable

## RGBS Style - 88959A

### Product Outline

88959A is a convenient and clean solution for running RGBS signals along with power in the same cable.

The controlled impedance coax conductors guarantee the highest quality video transmission over longer distances.

The pliable design makes this cable easy to work with and handle, both on the line and in the field.



### Features

Cable	
Jacket	PVC
Overall Diameter	.352 inches
Overall Shield	NA
RoHS Status	Compliant
Minimum Bend Radius	5.28 inches
UL Rated	Yes
Flame Rating	VW1
Jacket Color	Black
Coax Color Code	Black, Gray, Red, Green, Blue
Discrete Color Code	Green, Blue
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 2 Discrete Wires	
Gauge	24 AWG
Stranding	19/36 TC
Insulation	PVC
OD	.045 inches

Conductor – 5 Coax Conductors	
Gauge	28 AWG
Stranding	7/36 TC
Insulation	Foamed Polypropylene
Shielding	38 AWG Braid - 95% Min Coverage
Impedance	75 Ohms +/- 4 Ohms
Diameter	.101 inches

### Ordering Information

Order No.	Description
RGBS-31-C	Standard 31 Meter Spool
RGBS-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 88959A, please contact Customer Service.

# Composite Cable

## CCXC Style - 89238A

### Product Outline

Consisting of four discrete wires and four coax conductors, this cable is the perfect solution for carrying analog video, power, and trigger control.

The coaxial conductors have consistently performed at lengths up to 50 meters while transmitting high quality video signal.

Double shielded, teflon, and high flex versions are available. Please contact customer service for additional information.



### Features

Cable	
Jacket	PVC
Overall Diameter	.270 inches
Overall Shield	Braid - 90% Min Coverage
RoHS Status	Compliant
Minimum Bend Radius	4.05 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Black
Coax Color Code	Red, Black, Orange, White
Discrete Color Code	Yellow, Blue, Gray, Brown
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 4 Discrete Wires	
Gauge	24 AWG
Stranding	7/32 TC
Insulation	PVC
OD	.035 inches

Conductor – 4 Coax Conductors	
Gauge	30 AWG
Stranding	7/38 BC
Insulation	Foamed Polyolefin
Shielding	Spiral - 90% min coverage
Impedance	75 Ohms
Diameter	0.075

### Ordering Information

Order No.	Description
MRGB-31-C	Standard 31 Meter Spool
MRGB-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89238A, please contact Customer Service.

# Composite Cable

## CCXC Style - 89238A-DUAL

### Product Outline

Consisting of four discrete wires and four coax conductors, this cable is the perfect solution for carrying analog video, power, and trigger control.

The double shielded design allows for high quality data transmission over greater distances through electrically noisy environments without signal degradation.

Standard shielding, teflon, and high flex versions are available. Please contact customer service for additional information.



### Features

Cable	
Jacket	PVC
Overall Diameter	.270 inches
Overall Shield	Braid - 90% Min Coverage / Aluminum tape
RoHS Status	Compliant
Minimum Bend Radius	4.05 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Black
Coax Color Code	Red, Black, Orange, White
Discrete Color Code	Yellow, Blue, Gray, Brown
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor - 4 Discrete Wires	
Gauge	24 AWG
Stranding	7/32 TC
Insulation	PVC
OD	.035 inches

Conductor - 4 Coax Conductors	
Gauge	30 AWG
Stranding	7/38 BC
Insulation	Foamed Polyolefin
Shielding	Spiral - 90% min coverage
Impedance	75 Ohms
Diameter	0.075

### Ordering Information

Order No.	Description
MRGBD-31-C	Standard 31 Meter Spool
MRGBD-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89238D, please contact Customer Service.



# Composite Cable

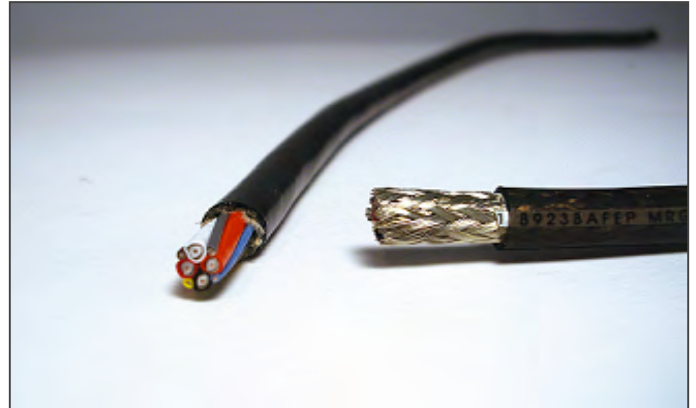
## CCXC Style - 89238AFEP

### Product Outline

Consisting of four discrete wires and four coax conductors, this cable is the perfect solution for carrying analog video, power, and trigger control.

The durable teflon jacketing allows for use through harsh conditions such as abrasion, chemicals, outdoors, water, and high temperatures.

Standard shielding, double shielding, and high flex versions are available. Please contact customer service for additional information.



### Features

Cable	
Jacket	FEP
Overall Diameter	.270 inches
Overall Shield	Braid - 90% Min Coverage
RoHS Status	Not Compliant
Minimum Bend Radius	4.05 inches
Jacket Color	Black
Coax Color Code	Red, Black, Orange, White
Discrete Color Code	Yellow, Blue, Gray, Brown

Conductor - 4 Discrete Wires	
Gauge	24 AWG
Stranding	7/32 TC
Insulation	PVC
OD	.035 inches

Conductor - 4 Coax Conductors	
Gauge	30 AWG
Stranding	7/38 BC
Insulation	Foamed Polyolefin
Shielding	Spiral - 90% min coverage
Impedance	75 Ohms
Diameter	0.075

### Ordering Information

Order No.	Description
MRGBT-31-C	Standard 31 Meter Spool
MRGBT-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89238AFEP, please contact Customer Service.

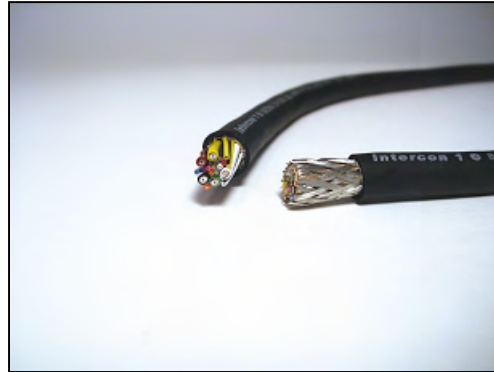
# Composite Cable

## 89254A

### Product Outline

Consisting of 16 discrete wires and 5 - 75 Ohm coaxial conductors, this cable offers versatility and performance for carrying high quality composite video along with control and data.

The overall braid shielding provides ample coverage to protect against electrical noise in a wide range of frequencies increasing dependability and minimizing loss.



### Features

Cable	
Jacket	PVC
Overall Diameter	.345 inches
Overall Shield	Braid - 90% Min. Coverage
RoHS Status	Compliant
Minimum Bend Radius	5.175 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Black Matte
Coax Color Code	Red, Black, Green, White, Yellow
Discrete Color Code	White, Yellow, Pink, Orange, Tan, Brown, Red, Blue, Violet, Black, Green, Gray, Wht/Blk, Yel/Blk, Org/Blk, Tan/Blk
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 16 Discrete Wires	
Gauge	16 AWG
Stranding	7/32 TC
Insulation	PVC
OD	.035 inches

Conductor – 5 Coax Conductors	
Gauge	30 AWG
Stranding	7/38 BC
Insulation	Foamed Polyethylene
Shielding	Spiral - 95% Min Coverage
Impedance	75 Ohms
Diameter	.075 inches

### Ordering Information

Order No.	Description
89254A-31-C	Standard 31 Meter Spool
89254A-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89254A, please contact Customer Service.

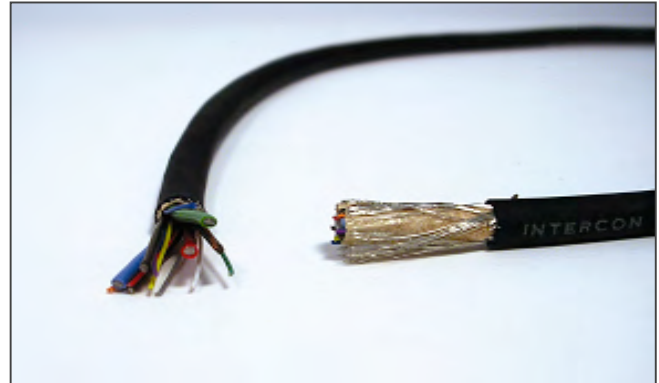
# Composite Cable

## Remote Head Cable - 89255A

### Product Outline

This composite cable consisting of six coax conductors and nine discrete wires provides versatility within a small overall diameter.

The tinned cadmium bronze conductors increase flex life in bend applications and allows for increased durability.



### Features

Cable	
Jacket	PVC
Overall Diameter	.227 inches
Overall Shield	Braid - 70% Min. Coverage
RoHS Status	Not Compliant
Minimum Bend Radius	3.405 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Black
32 AWG Coax Color Code	White, Black, Gray
28 AWG Coax Color Code	Red, Green, Blue
Discrete Color Code	Red, Grn, Yel, Gry, Wht, Brn, Blu, Vio, Org
Voltage	30V
Max Operating Temp	60 degrees Celsius

Conductor – 9 Discrete Wires	
Gauge	32 AWG
Stranding	7/40 TCB
Insulation	Polypropylene
OD	.019 inches

Conductor – 3 Coax Conductors	
Gauge	32 AWG
Stranding	7/40 TCB
Insulation	FEP
Shielding	Spiral - 95% Min. Coverage
Impedance	50 Ohms
Diameter	.037 inches

Conductor – 3 Coax Conductors	
Gauge	28 AWG
Stranding	7/36 TC
Insulation	Foamed Polyethylene
Shielding	Spiral - 95% Min. Coverage
Impedance	50 Ohms
Diameter	0.059 inches

### Ordering Information

Order No.	Description
89255A-31-C	Standard 31 Meter Spool
89255A-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89255A, please contact Customer Service.

# Composite Cable

**89559**

## Product Outline

Consisting of two discrete wires and one 75 Ohm coax, this cable is the perfect solution for transmitting power and analog video.

The small diameter and rugged thermoplastic rubber jacket add the additional benefits of pliability and durability, ensuring this supple cable will continue to perform in harsh environments such as water, oil, chemicals, and abrasion.



## Features

Cable	
Jacket	Thermoplastic Rubber - TPR
Overall Diameter	.195 inches
Overall Shield	Braid - 90% Min. Coverage
RoHS Status	Compliant
Minimum Bend Radius	2.925 inches
UL Rated	No
Flame Rating	VW-1
Jacket Color	Black
Coax Color Code	Red
Discrete Color Code	Yellow, Gray
Max Operating Temp	80 degrees Celsius
Min Operating Temp	- 40 degrees Celsius

Conductor – 2 Discrete Wires	
Gauge	24 AWG
Stranding	7/32 TC
Insulation	PVC
OD	.035 inches

Conductor – 1 Coax Conductor	
Gauge	30 AWG
Stranding	7/38 BC
Insulation	Foamed Polyethylene
Shielding	Spiral 95% Min. Coverage
Impedance	75 Ohms
Diameter	.077 inches

## Ordering Information

Order No.	Description
89559-31-C	Standard 31 Meter Spool
89559-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89559, please contact Customer Service.

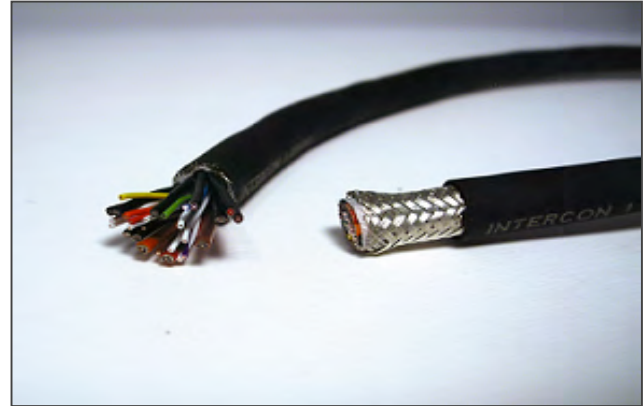
# Composite Cable

**89590**

## Product Outline

Capable of carrying both analog and digital video signals, this cable offers diversity for custom applications.

The overall braid shield ensures that your data will arrive without environmental loss.



## Features

Cable	
Jacket	PVC
Overall Diameter	.305 inches
Overall Shield	Braid - 90% Min Coverage
RoHS Status	Not Compliant
Minimum Bend Radius	4.575 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Black
75 Ohm Coax	Black, Brown, Red, Orange
50 Ohm Coax	Nat, Wht, Grn, Blu, Gry, Vio, Red, Brn
Twisted Pair	Wht/Blk, Wht/Brn, Wht/Red, Wht/Org, Wht/Yel, Wht/Grn, Wht/Blu, Wht/Vio
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 8 Twisted Pairs	
Gauge	28 AWG
Stranding	7/36 TC
Insulation	PVC
OD	.025 inches

Conductor – 8 50 Ohm Coax Conductors	
Gauge	32 AWG
Stranding	7/40 TCB
Insulation	FEP
Shielding	Spiral - 90% Min Coverage
Diameter	.038 inches

Conductor – 4 75 Ohm Coax Conductors	
Gauge	32 AWG
Stranding	7/40 TCB
Insulation	FEP
Shielding	Spiral - 90% Min Coverage
Diameter	.055 inches

## Ordering Information

Order No.	Description
89590-31-C	Standard 31 Meter Spool
89590-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89590, please contact Customer Service.

## 89594

### Product Outline

This mixed construction cable will carry composite video, power, and trigger control within a supple PVC jacket.

A 40 AWG tinned copper braid shielding offers exceptional protection for your images and data at a wider range of frequencies.

The 75 Ohm coax conductor transmits superior images at significant lengths.

A small overall diameter adds the additional benefits of a tighter bend radius and ease of termination on the production line.



### Features

Cable	
Jacket	PVC
Overall Diameter	.204 inches
Overall Shield	Braid - 90% Min. Coverage
RoHS Status	Compliant
Minimum Bend Radius	3.06 inches
UL Rated	Yes
Jacket Color	Black
Coax Color Code	Red
Discrete Color Code	Yellow, Blue, Gray, Brown
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 4 Discrete Wires	
Gauge	24 AWG
Stranding	7/ 32 TC
Insulation	PVC
OD	.035 inches

Conductor – 1 Coax Conductor	
Gauge	30 AWG
Stranding	7/38 BC
Insulation	Natural Polyethylene
Shielding	Spiral - 95% Min. Coverage
Impedance	75 Ohms
Diameter	.075 inches

### Ordering Information

Order No.	Description
89594-31-C	Standard 31 Meter Spool
89594-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89594, please contact Customer Service.



# Composite Cable

**89626**

## Product Outline

The 10 coax conductors carry 50 Ohm composite video along side of power and control lines.

The overall braid shield increases performance in noisy environments.

The small overall diameter offers the additional benefits of a tighter bend radius as well as ease of handling.



## Features

Cable	
Jacket	PVC
Overall Diameter	.158 inches
Overall Shield	Braid
Minimum Bend Radius	2.37 inches
UL Rated	Yes
Jacket Color	Black
Coax Color Code	Blk,Wht,Blu,Vio,Yel,Org,Grn,Red,Brn,Gry
Discrete Color Code	Orange, Yellow, Red, White
Voltage	30V
Max Operating Temp	-40 to 80 degrees Celsius

Conductor – 4 Discrete Wires	
Gauge	36 AWG
Stranding	7/44 TC
Insulation	FEP
OD	.017 inches

Conductor – 10 Coax Conductors	
Gauge	36 AWG
Stranding	7/44 TC
Insulation	FEP
Shielding	Spiral
Impedance	50 Ohm
Diameter	.022 inches

## Ordering Information

Order No.	Description
89626-31-C	Standard 31 Meter Spool
89626-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89626, please contact Customer Service.

# Composite Cable

## RGBS/Control Cable - 89651

### Product Outline

Five coax conductors and four discrete wires make 89651 a clean solution for video break outs.

The 24 awg discrete wires allow for power and control to be run along side of 75 Ohm coaxial cables.

The overall braid shield ensures that your data will remain secure, even in electrically noisy environments.



### Features

Cable	
Jacket	PVC
Overall Diameter	.275 inches
Overall Shield	Braid - 90% Min. Coverage
RoHS Status	Not Compliant
Minimum Bend Radius	4.125 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Black
Coax Color Code	Red, Black, Violet, White, Orange
Discrete Color Code	Yellow, Brown, Gray, Blue
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor - 4 Discrete Wires	
Gauge	24 AWG
Stranding	7/32 TC
Insulation	PVC
OD	.035 inches

Conductor - 5 Coax Conductors	
Gauge	30 AWG
Stranding	7/38 BC
Insulation	Polyethylene
Shielding	Spiral - 95% Min. Coverage
Impedance	75 Ohms
Diameter	.075 inches

### Ordering Information

Order No.	Description
MRGBS-31-C	Standard 31 Meter Spool
MRGBS-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89651, please contact Customer Service.

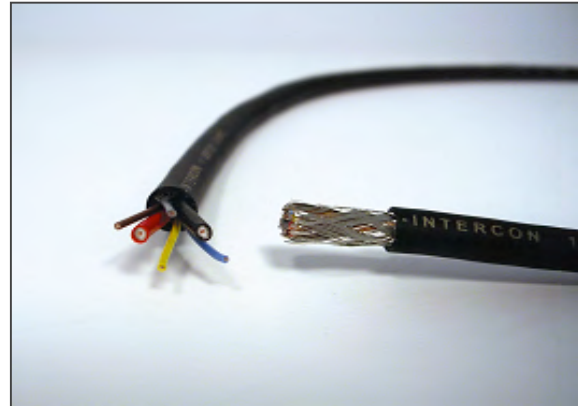
# Composite Cable

**89702**

## Product Outline

This high quality composite cable consists of two coax conductors and four discrete wires, enabling S-Video to be ran along side power and control lines in a compact, single cable solution.

Overall shielding and larger conductor gauge allow for greater transmission lengths to be achieved without compromising a small, supple design.



## Features

Cable	
Jacket	PVC
Overall Diameter	.233 inches
Overall Shield	Braid - 90% Min. Coverage
RoHS Status	Non Compliant
Minimum Bend Radius	3.495 inches
UL Rated	Yes
Flame Rating	NA
Jacket Color	Black
Coax Color Code	Red, Black
Discrete Color Code	Yellow, Gray, Blue, Brown
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 4 Discrete Wires	
Gauge	24 AWG
Stranding	7/32 TC
Insulation	PVC
OD	.035 inches

Conductor – 2 Coax Conductors	
Gauge	30 AWG
Stranding	7/38 BC
Insulation	PVC
Shielding	Spiral - 95% Min. Coverage
Impedance	75 Ohm
Diameter	.075 inches

## Ordering Information

Order No.	Description
89702-31-C	Standard 31 Meter Spool
89702-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89702, please contact Customer Service.

# Composite Cable

## Robotic Laser Vision Cable - 89712

### Product Outline

Initially designed in conjunction with a major OEM to be used in high-demand robotic controlled laser equipment, this sturdy LTC cable has repeatedly demonstrated unsurpassed dependability during years of severe environment static factory service.

This cable utilizes five individually shielded twisted pairs, 22 AWG signal transmitting conductors, one 18 AWG twisted pair for power and one 30 AWG 75 Ohm coax conductor for composite video.



### Features

Cable	
Jacket	PVC
Overall Diameter	.440 inches
Overall Shield	NA
RoHS Status	Compliant
Minimum Bend Radius	6.60 inches
UL Rated	Yes
Jacket Color	Black
18 AWG TWPR Color Code	Red/Green
22 AWG TWPR Color Code	Org/Yel, Bwn/Blu, Vio/Gray, Blk/Wht, Red/Tan
30 AWG Coax Color Code	Black
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 18 AWG Twisted Pair	
Gauge	18 AWG
Stranding	16/30 TC
Insulation	PVC
Diameter	.070 inches

Conductor – 5 Individually Shielded Twisted Pairs	
Gauge	22 AWG
Stranding	7/30 TC
Insulation	PVC
Shielding	Aluminum Mylar Foil
Diameter	.050 inches

Conductor – 2 Drain Wires	
Gauge	22 AWG
Stranding	7/30 TC

Conductor - 1 Coax	
Gauge	30 AWG
Stranding	7/38 TC
insulation	Foamed PE
Shielding	Braid - 90% Min. Coverage
Impedance	75 Ohm
Diameter	.100 inches

### Ordering Information

Order No.	Description
89712-31-C	Standard 31 Meter Spool
89712-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89712, please contact Customer Service.

## InterFlex CCXC - 89724

### Product Outline

The high flex 32 awg coaxial components used in this robust yet supple cable achieve precise signal transmission at a controlled impedance of 75 +/- 4 Ohms.

The 4 discrete 28 awg primaries in this flex cable incorporate 19/40 stranded tinned copper wire with a supple PVC compound dielectric. The overall cable shield is a 40 awg tinned copper dual reverse spiral shield that enhances the supple feel of the cable, provides greater flex cycling than braid, offers 90% minimum coverage while maintaining capacitance performance comparable to braid shielding.



Designed originally for robotic assembly and inspection equipment this 5.77mm OD cable is ideal for applications ranging from scientific to security to medical. This cable series can be produced in three common formats to meet the widest variety of applications. The standard PVC jacketed version with double shielding fulfills traditional short-run analog video requirements for 75 ohm components. The FEP version is ideal for applications requiring abrasion resistance and protection from spot thermal deformation. The dual foil/spiral version is a custom product that offers the maximum level of shielding.

### Features

Cable	
Jacket	PVC
Overall Diameter	.227 inches
Overall Shield	Double Reverse Spiral - 90% Min Coverage
RoHS Status	Compliant
Minimum Bend Radius	2.27 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Black
Coax Color Code	Black, White, Red, Orange
Discrete Color Code	Gray, Yellow, Blue, Brown
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 4 Discrete Wires	
Gauge	28 AWG
Stranding	19/40 TC
Insulation	PVC
OD	.026 inches

Conductor – 4 Coax Conductors	
Gauge	32 AWG
Stranding	7/40 TC
Insulation	FEP
Shielding	Spiral - 95% Min Coverage
Impedance	75 Ohm +/- 4 Ohms
Diameter	.055 inches

### Ordering Information

Order No.	Description
UMRGB-31-C	Standard 31 Meter Spool
UMRGB-C	Custom length spool measured in feet.

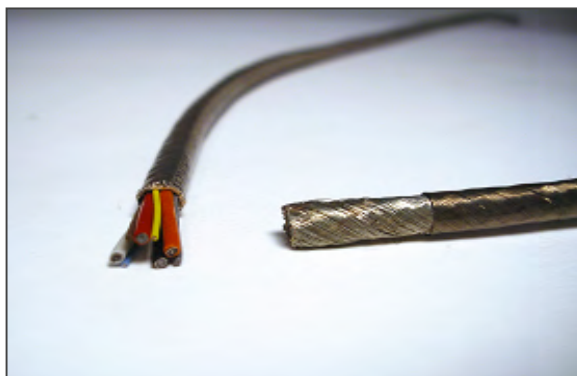
For standard or custom cable assemblies fabricated with 89724, please contact Customer Service.

## InterFlex CCXC - Teflon - 89724TFEP

### Product Outline

The high flex 32 awg coaxial components used in this robust cable achieve precise signal transmission at a controlled impedance of 75 +/- 4 Ohms.

The 4 discrete 28 awg primaries in this flex cable incorporate 19/40 stranded tinned copper wire. The overall cable shield is a 40 awg tinned copper dual reverse spiral shield that provides greater flex cycling than braid, offers 90% minimum coverage while maintaining capacitance performance comparable to braid shielding.



Designed originally for robotic assembly and inspection equipment this 5.77mm OD cable is ideal for applications ranging from scientific to security to medical. This cable series can be produced in three common formats to meet the widest variety of applications. The FEP jacketing provides excellent protection against harsh elements such as chemicals, abrasion, water, and sunlight. The standard PVC jacketed version with double shielding fulfills traditional short-run analog video requirements for 75 ohm components. The dual foil/spiral version is a custom product that offers the maximum level of shielding.

### Features

Cable	
Jacket	FEP
Overall Diameter	.185 inches
Overall Shield	Double Reverse Spiral - 90% Min Coverage
RoHS Status	Not Compliant
Minimum Bend Radius	1.85 inches
UL Rated	No
Flame Rating	VW-1
Jacket Color	Black
Coax Color Code	Black, White, Red, Orange
Discrete Color Code	Gray, Yellow, Blue, Brown
Voltage	300V
Max Operating Temp	80 degrees Celsius

Conductor – 4 Discrete Wires	
Gauge	28 AWG
Stranding	19/40 TC
Insulation	PVC
OD	.026 inches

Conductor – 4 Coax Conductors	
Gauge	32 AWG
Stranding	7/40 TCB
Insulation	FEP
Shielding	Spiral - 95% Min Coverage
Impedance	75 Ohm +/- 4 Ohms
Diameter	.055 inches

### Ordering Information

Order No.	Description
UMRGBT-31-C	Standard 31 Meter Spool
UMRGBT-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89724TFEP, please contact Customer Service.



# Composite Cable

**89752**

## Product Outline

This supple cable provides several lines for video, control, and power signals.

The compact design offers additional benefits in benefits in tight space applications and in usability.

The 19/42 tinned copper stranding increases both the flex life and the pliability.



## Features

Cable	
Jacket	PVC
Overall Diameter	.189 inches
Overall Shield	Braid - 70% Min. Coverage
RoHS Status	Non Compliant
Minimum Bend Radius	2.835 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Black
Coax Color Code	Natural, White, Green, Blue, Gray
Discrete Color Code	Nat., Yel, Org, Red, Blk, Blu, Brn, Grn, Gry, Vio
Voltage	30V
Max Operating Temp	60 degrees Celsius

Conductor – 10 Discrete Wires	
Gauge	30 AWG
Stranding	19/42 TC
Insulation	FEP
OD	.025 inches

Conductor – 5 Coax Conductors	
Gauge	32 AWG
Stranding	7/40 TCB
Insulation	FEP
Shielding	Spiral - 90% Min. Coverage
Impedance	50 Ohms
Diameter	.037 inches

## Ordering Information

Order No.	Description
89752-31-C	Standard 31 Meter Spool
89752-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89752, please contact Customer Service.

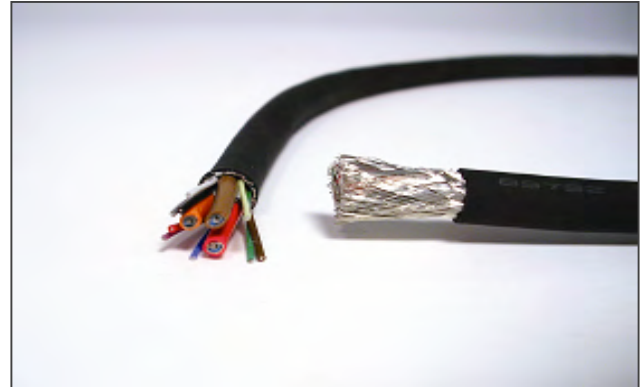
# Composite Cable

## 89792

### Product Outline

This small composite cable offers six high quality coaxial conductors for carrying video and data signals.

The additional discrete wires allow for power, ground, and control to be ran along side of the video providing a complete solution without additional cables.



### Features

Cable	
Jacket	PVC
Overall Diameter	.267 inches
Overall Shield	Braid
RoHS Status	Compliant
Minimum Bend Radius	4 inches
UL Rated	Yes
Flame Rating	VW1
Jacket Color	Black
28 AWG Coax Color Code	Red, Orange, Brn
36 AWG Coax Color Code	Blu, Vio, Gray, Wht, Yel, Grn
Discrete Color Code	Red, Blk, Brn

Conductor – 3 Discrete Wires	
Gauge	26 AWG
Stranding	19/38 TC
Insulation	Irrax-V
OD	.035 inches

Conductor – 3 Coax Conductors	
Gauge	28 AWG
Stranding	7/36 TC
Shielding	Spiral- Aluminum Polyester Tape
Impedance	75 Ohm
Diameter	.089 inches

Conductor – 6 Coax Conductors	
Gauge	36 AWG
Stranding	7/44 TC
Insulation	PFA
Shielding	Spiral
Impedance	54 Ohm
Diameter	.028 inches

### Ordering Information

Order No.	Description
89792-31-C	Standard 31 Meter Spool
89792-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89792, please contact Customer Service.

## 89803

### Product Outline

The 6 controlled impedance 30 AWG coaxial conductors used in this popular cable execute signal transmission at a precise 75 ohm. In applications with assemblies using these coaxial components, signals have been successfully transmitted up to 65 meters.



The 89803 cable series can be produced in any one of three formats to meet a wide variety of applications. The standard version which incorporates a supple PVC compound jacketing and overall braid shielding will meet the majority of analog miniature video

analog miniature video applications requiring 75 Ohm components and discrete wires for DC power.

A dual shielded version, which can be produced as a custom product, incorporates braid and foil shielding. This product configuration was designed to meet stringent European requirements while still maintaining a comfortable level of suppleness. A second custom version, with FEP jacketing, will enhance abrasion and chemical resistance characteristics as well as retard spot thermal deformation.

### Features

Cable	
Jacket	PVC
Overall Diameter	.293 inches
Overall Shield	Braid - 80% Min Coverage
RoHS Status	Not Compliant
Minimum Bend Radius	4.395 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Black
Coax Color Code	Red, Green, Blue, Black, Yellow, White
Discrete Color Code	Black, Red
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 2 Discrete Wires	
Gauge	24 AWG
Stranding	7/32 TC
Insulation	PVC
OD	.035 inches

Conductor – 6 Coax Conductors	
Gauge	30 AWG
Stranding	7/38 BC
Insulation	Polypropylene
Shielding	Spiral - 95% Min Coverage
Impedance	75 Ohms +/- 4 Ohms
Diameter	.075 inches

### Ordering Information

Order No.	Description
89803-31-C	Standard 31 Meter Spool
89803-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89803, please contact Customer Service.

# Composite Cable

**89804**

## Product Outline

This high quality video cable offer 22 coax conductors for data, as well as four 28 gauge discrete wires for power and triggering.

The fine gauge allows for additional versatility within in a small overall diameter.



## Features

Cable	
Jacket	PVC
Overall Diameter	.216 inches
Overall Shield	Braid
RoHS Status	Compliant
Minimum Bend Radius	3.24 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Black
Coax Color Code	Blk, Wht, Org, Yel, Blk, Wht, Org, Yel, Blk, Wht, Org, Yel
Discrete Color Code	Nat, Blk, Bwn, Red, Org, Yel, Grn, Blu, Vio, Gry, Nat, Blk, Bwn, Red
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 14 Discrete Wires	
Gauge	28 AWG
Stranding	7/36 TC
Insulation	ETFE
OD	0.055 inches

Conductor – 12 Coax Conductors	
Gauge	36 AWG
Stranding	7/42 TC
Insulation	PTFE
Shielding	Spiral- Aluminum Polyester Tape
Impedance	50 Ohms
Diameter	.016 inches

## Ordering Information

Order No.	Description
89804-31-C	Standard 31 Meter Spool
89804-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89804, please contact Customer Service.

# Composite Cable

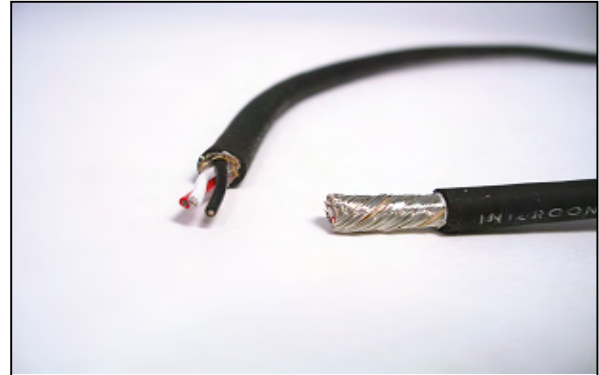
**89809**

## Product Outline

This compact cable consisting of one twisted pair and one discrete wire is capable of carrying LVDS signals and ground over longer distances.

The rugged TPE jacket and 95% minimum coverage spiral shield provide additional protection against outside elements as well as electronic noise.

The high flex cable design allows this cable to perform in robotic and motion applications without yielding to mechanical or electrical failures.



## Features

Cable	
Jacket	Thermoplastic Elastomer
Overall Diameter	.198 inches
Overall Shield	Spiral - 95% Min Coverage
RoHS Status	Non Compliant
Minimum Bend Radius	1.98 inches
UL Rated	Yes
Jacket Color	Black
Twisted Pair Color Code	Black/White
Discrete Color Code	Red
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 1 Discrete Wire	
Gauge	22 Awg
Stranding	19/34 TC
Insulation	PVC
OD	.046 inches

Conductor – Twisted Pair	
Gauge	22 AWG
Stranding	19/34 TC
Insulation	PVC
Shielding	NA
Diameter	.046 inches

## Ordering Information

Order No.	Description
89809-31-C	Standard 31 Meter Spool
89809-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89809, please contact Customer Service.

# Composite Cable

## InterFlex Laser Cable - 89820

### Product Outline

This unique high-flex cable was designed specifically to work with Keyence Laser equipment LB-301/1201. The robust cable performs admirably in temperatures from -34 degrees to +135 degrees. The exclusive UV blocking additive in the custom blended TPE jacket compound, combined with the extended operating temperature range, makes this cable ideal for applications requiring extensive exposure to outdoor and other hostile environments.



The cable construction consists of 2 28 ohm coaxial conductors with a capacitance rating of 56 pF/ft and two discrete conductors rated at 46.8 ohms/1K ft. The overall spiral shielding provides 95% nominal coverage while allowing cable flex ratings around 500,000 cycles.

### Features

Cable	
Jacket	Thermo Plastic Rubber
Overall Diameter	.263 inches
Overall Shield	Spiral - 95% Min. Coverage
Minimum Bend Radius	2.63 inches
Jacket Color	Parchment White
Coax Color Code	Black, White, Red, Green
Discrete Color Code	Brown, Blue, Orange, Yellow
Voltage	30V
Min. Operating Temp	-34 degrees Celsius
Max Operating Temp	135 degrees Celsius

Conductor – 4 Discrete Wires	
Gauge	26 AWG
Stranding	28/40 TC
Insulation	TPR
OD	.037 inches

Conductor – 4 Coax Conductors	
Gauge	26 AWG
Stranding	28/40 TC
Insulation	TPR
Shielding	Spiral - 95% Min. Coverage
Impedance	28 Ohms
Diameter	.067 inches

### Ordering Information

Order No.	Description
89820-31-C	Standard 31 Meter Spool
89820-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89820, please contact Customer Service.



# Composite Cable

**89953**

## Product Outline

This composite cable contains 10 coaxial conductors and 6 discrete wires for carrying several video and control signals.

The overall shield provides 90% minimum coverage and gives superior protection against data loss through most frequencies.



## Features

Cable	
Jacket	PVC
Overall Diameter	.278 inches
Overall Shield	Braid - 85% Min. Coverage
RoHS Status	Non Compliant
Minimum Bend Radius	4.17 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Black Matte
30 AWG Coax Color Code	Red, Green, Blue, Black, Yellow
32 AWG Coax Color Code	Natural, Violet, Green, Brown, Black
32 AWG Discrete Color Code	White, Green, Blue, Gray
28 AWG Discrete Color Code	Black, Red
Voltage	30V
Max Operating Temp	60 degrees Celsius

Conductor – 5 Coax Conductors	
Gauge	30 AWG
Stranding	7/38 BC
Insulation	Polypropylene
Shielding	Spiral - 95% Min Coverage
Impedance	75 Ohms
Diameter	.075 inches

Conductor – 5 Coax Conductors	
Gauge	32 AWG
Stranding	7/40 TCB
Insulation	FEP
Shielding	Spiral - 93% Min Coverage
Impedance	50 Ohm
Diameter	.037 inches

Conductor – 4 Discrete Wires	
Gauge	32 AWG
Stranding	7/40 TCB
Insulation	FEP
OD	.019 inches

Conductor – 2 Discrete Wires	
Gauge	28 AWG
Stranding	7/36 TC
Insulation	FEP
OD	.025 inches

## Ordering Information

Order No.	Description
89953-31-C	Standard 31 Meter Spool
89953-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89953, please contact Customer Service.

## InfiniFlex - 90036

### Product Outline

This InfiniFlex Cable is designed to surpass 10 million flex cycles in the most extreme environments.

The rugged TPE blend jacket and the double shielding add additional benefits in durability and performance in carrying power and video through harsh physical and electrical conditions.



### Features

Cable	
Jacket	TPE Blend
Overall Diameter	.275 inches
Overall Shield	Double Reverse Spiral - 95% Min. Coverage
RoHS Status	Not Compliant
Minimum Bend Radius	2.75 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Violet
Coax Color Code	Black
Discrete Color Code	Black,Red
Voltage	30V
Max Operating Temp	80 degrees C

Conductor – 2 Discrete Wires	
Gauge	24 AWG
Stranding	19/36 TC
Insulation	Polyester Elastomer
OD	.047 inches

Conductor – 1 Coax Conductor	
Gauge	26 AWG
Stranding	19/38 TC
Insulation	Foamed FEP
Shielding	Reverse Spiral - 95% Min Coverage
Impedance	75 Ohm
Diameter	.125 inches

### Ordering Information

Order No.	Description
90036-31-C	Standard 31 Meter Spool
90036-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 90036, please contact Customer Service.

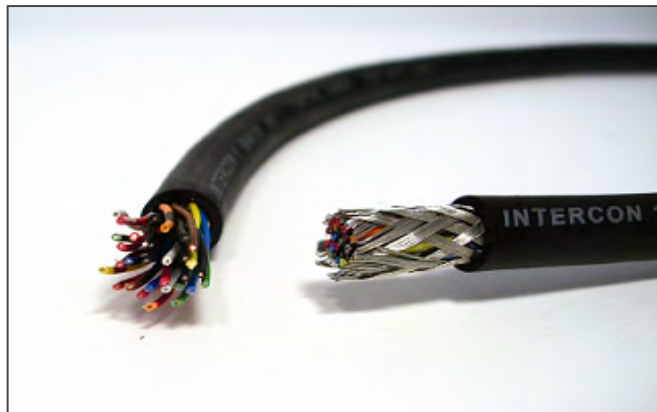
RoHS Compliant versions are available.

## 89610

### Product Outline

This reliable LVDS cable blends high quality digital data lines with an effective overall braid shield.

The 15 pairs allow this cable to be used in a variety of applications including vision, data transmission, and control.



### Features

15 Twisted Pair Cable	
Jacket	PVC
Overall Diameter	.320 inches
Overall Shield	Braid - 95% Min. Coverage
RoHS Status	Not Compliant
Minimum Bend Radius	4.8 inches
UL Rated	NA
Flame Rating	VW1
Jacket Color	Black
Voltage	30V
Max Operating Temp	80 degrees Celsius
Gauge	28 AWG
Stranding	19/40 TC
Insulation	Polypropylene
Conductor OD	.029 inches

Color Code	
1	Red/Yel & Yel/Red
2	Brn/Red & Red/Brn
3	Red/Brn & Org/Red
4	Grn/Wht & Wht/Grn
5	Blu/Brn & Grn/Blu
6	Yel/Blk & Blk/Yel
7	Blk/Brn & Brn/Blk
8	Blk/Org & Org/Blk
9	Red/Wht & Wht/Red
10	Grn/Red & Red/Grn
11	Blu/Red & Red/Blu
12	Blk/Grn & Grn/Blk
13	Wht/Blk & Blk/Wht
14	Red/Blk & Blk/Red
15	Blu/Blk & Blk/Blu

### Ordering Information

Order No.	Description
89610-31-C	Standard 31 Meter Spool
89610-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89610, please contact Customer Service.

## 89611-05P

### Product Outline

This high performance digital cable combines quality electrical characteristics with rugged high flex mechanical design.

This unique design offers high flex life as well as increased pliability.



### Features

Cable	
Jacket	PVC
Overall Diameter	.255 inches
Overall Shield	Braid - 85% Min Coverage
RoHS Status	Not Compliant
Minimum Bend Radius	3.825 inches
UL/CSA Rated	Yes
Flame Rating	FT-1
Jacket Color	Dark Gray
Twisted Pair Color Code	Black/Red, Black/White, Black/Green, Black/Blue, Black/Yellow
Voltage	300 V
Max Operating Temp	105 degrees Celsius
Gauge	28 AWG
Stranding	19/40 TC
Insulation	PVC
OD	.035 inches

### Ordering Information

Order No.	Description
89611-05P-31-C	Standard 31 Meter Spool
89611-05P-C	Custom length spool measured in feet.

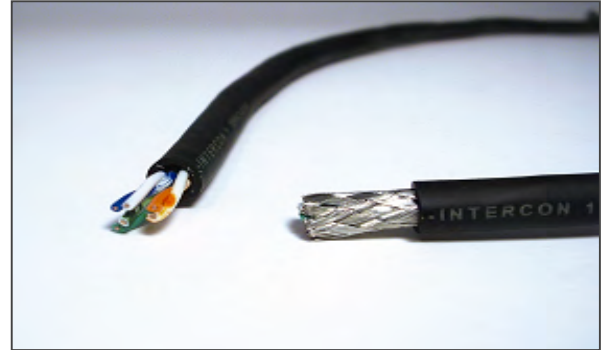
For standard or custom cable assemblies fabricated with 89611-05P, please contact Customer Service.

## 89642-03P

### Product Outline

This 100 Ohm, three twisted pair cable provides exceptional data transmissions by combining an overall braid shield along with 24 gauge wires and a 24 gauge drain wire.

The drain wire allow for easy termination of overall shielding while the overall braid shield offers 360 degree shielding at a wide range of frequencies.



### Features

3 Twisted Pair Cable	
Jacket	PVC
Overall Diameter	.278 inches
Overall Shield	Braid - 90% Min Coverage
Drain Wire	24 AWG TC
RoHS Status	Not Compliant
Minimum Bend Radius	4.17 inches
UL / CSA Rated	Yes
Flame Rating	FT-1
Jacket Color	Black Matte
Twisted Pair Color Code	Wht/Blu & Blu/Wht, Wht/Org & Org/Wht, Wht/Grn & Grn/Wht
Voltage	300V
Max Operating Temp	80 degrees Celsius
Gauge	24 AWG
Stranding	7/32 TC
Insulation	Polyethylene
Conductor OD	.054 inches

### Ordering Information

Order No.	Description
89642-03P-31-C	Standard 31 Meter Spool
89642-03P-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89642-03P, please contact Customer Service.

## 89761

### Product Outline

This 22 gauge LVDS cable offers high flex performance along with quality data transmissions.

The durable TPE jacket protects against elements such as water, oil, and abrasion.



### Features

9 Twisted Pair Cable	
Jacket	Thermo Plastic Elastomer
Overall Diameter	.360 inches
Overall Shield	Double Reverse Spiral - 85% Min Coverage
RoHS Status	Compliant
Minimum Bend Radius	3.60 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Black
Twisted Pair Color Code	Wht/Blu & Blu/Wht, Wht/Org & Org/Wht, Wht/Grn & Grn/Wht, Wht/Brn & Brn/Wht, Wht/Gry & Gry/Wht, Red/Blu & Blu/Red, Red/Org & Org/Red, Red/Grn & Grn/Red, Red/Brn & Brn/Red
Voltage	30V
Max Operating Temp	80 degrees Celsius
Gauge	22 AWG
Stranding	19/35 TC
Insulation	Polyester
Conductor OD	.039 inches

### Ordering Information

Order No.	Description
89761-31-C	Standard 31 Meter Spool
89761-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 89761, please contact Customer Service.



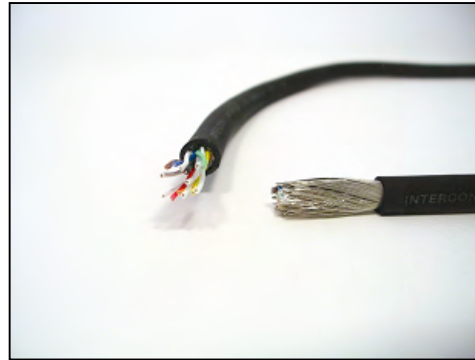
## High-Flex LVDS - 89802 Series

### Product Outline

This High-Flex LVDS cable guarantees high quality video performance and rugged durability.

The large variety of pair configurations ensure a cable to fit every application.

These cables have proven their dependability in a multitude of applications such as farm machinery, water tight, and scientific applications.



### Features

LVDS Cable	
Jacket	Thermo Plastic Elastomer
Overall Shield	Double Reverse Spiral - 80% Min Coverage / Aluminum Tape
RoHS Status	Compliant
Flame Rating	VW-1
Jacket Color	Black
Voltage	30V
Min-Max Operating Temp	-24 to 80 degrees Celsius
Gauge	28 AWG
Stranding	19/40 TC
Insulation	Polypropylene
Conductor OD	.029 inches

	Standard Pair Information	
	OD (in)	Min Bend Radius
2 pair	0.187	1.87
4 pair	0.207	2.07
7 pair	0.254	2.54
18 pair	0.337	3.37
25 pair	0.377	3.77
37 pair	0.419	4.19
50 pair	0.49	4.9

Custom pair configurations are available. Please contact customer service

### Ordering Information

Order No.	Description
89802-XXP-31-C	Standard 31 Meter Spool
89802-XXP-C	Custom length spool measured in feet.

-XX is replaced by the desired pair number.

For standard or custom cable assemblies fabricated with 89802, please contact Customer Service.

## InfiniFlex IEEE 1394a - 90067

### Product Outline

This InfiniFlex cable is designed to surpass 10 million flex cycles in the most extreme conditions including flexing, pulling, and torsion.

Conforming to IEEE 1394a, this rugged cable has successfully extended beyond the standard's 15 foot maximum length in several applications.



### Features

Cable	
Jacket	PVC
Overall Diameter	.320 inches
Overall Shield	Double Reverse Spiral - 95% Min Coverage
RoHS Status	Compliant
Minimum Bend Radius	3.20 inches
UL Rated	Yes
Flame Rating	VW-1 / FT-1
Jacket Color	Violet
Twisted Pair Color Code	Orange/Blue, Red/Green
Discrete Color Code	Black, White
Voltage	300V
Max Operating Temp	80 degrees Celsius

2 Discrete Wires	
Gauge	22 AWG
Stranding	105/42 TC
Insulation	PVC
OD	.047 inches

2 Individually Shielded Twisted Pairs	
Gauge	28 AWG
Stranding	19/40 TC
Insulation	Foam Polyolefin
Shielding	Aluminum Tape/ Reverse Spiral 95% Min Coverage
Impedance	110 +/- 6 Ohms
Diameter	.048 inches

### Ordering Information

Order No.	Description
90067-31-C	Standard 31 Meter Spool
90067-C	Custom length spool measured in feet.

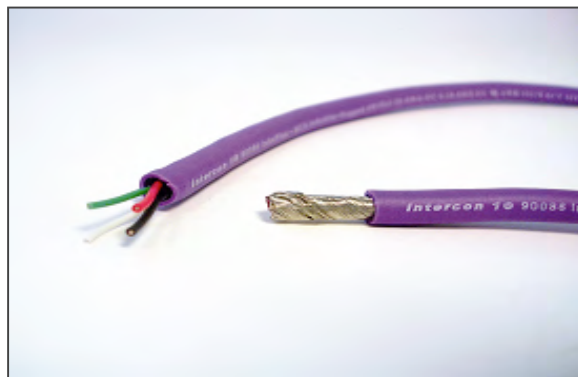
For standard or custom cable assemblies fabricated with 90067, please contact Customer Service.

## InfiniFlex USB 2.0 - 90086

### Product Outline

This InfiniFlex USB 2.0 cable is designed to surpass 10 million flex cycles in the most harsh environments.

The double shielding offers increased protection through noisy environments and allows greater lengths to be achieved without compromising signal integrity.



### Features

Cable	
Jacket	PVC
Overall Diameter	.177 inches
Overall Shield	Double Reverse Spiral - 90% Min Coverage
RoHS Status	Compliant
Minimum Bend Radius	1.77 inches
UL Rated	Yes
Flame Rating	VW-1
Jacket Color	Violet
Twisted Pair Color Code	White/Green
Discrete Color Code	Black, Red
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 2 Discrete Wires	
Gauge	26 AWG
Stranding	19/38 TC
Insulation	PVC
OD	.040 inches

Conductor – 1 Twisted Pair	
Gauge	28 AWG
Stranding	19/40 TC
Insulation	Polypropylene
Impedance	90 Ohms
Diameter	.033 inches

### Ordering Information

Order No.	Description
90086-31-C	Standard 31 Meter Spool
90086-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 90086, please contact Customer Service.

## 90124

### Product Outline

This high flex LVDS cable offers four twisted pairs along with a drain wire and overall braid shield in a small pliable design.

The PVC insulation allows for easy termination in IDC style connectors and strips well for easy handling on solder style connectors.



### Features

Cable	
Jacket	PVC
Overall Diameter	.190 inches
Overall Shield	Braid - 85% Min Coverage / Alum-Polyester Tape
Drain Wire	28 AWG TC
RoHS Status	Compliant
Minimum Bend Radius	1.90 inches
UL / CSA Rated	Yes
Flame Rating	FT-1
Jacket Color	Black Matte
Twisted Pair Color Code	Wht/Blu & Blu/Wht, Wht/Org & Org/White, Wht/Grn & Grn/Wht, Wht/Brn & Brn/Wht
Voltage	30V
Max Operating Temp	60 degrees Celsius
Gauge	28 AWG
Stranding	7/36 TC
Insulation	PVC
Conductor OD	.025 inches

### Ordering Information

Order No.	Description
90124-31-C	Standard 31 Meter Spool
90124-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 90124, please contact Customer Service.

## High Flex - Gig E Vision - 90175

### Product Outline

This high flex cable designed for Gig E Vision applications provides exceptional quality for industrial applications requiring more than what standard Cat 5 or Cat 6 cables can offer.

The 19/35 stranding that comprises the individual conductors increases both pliability and flex life. The supple PVC jacketing offers additional benefits of protection against outside elements as well as contributing to the soft feel of the cable.



### Features

Cable	
Jacket	PVC
Overall Diameter	.245 inches
Overall Shield	Braid - 85% Min Coverage / Aluminum Mylar Tape
RoHS Status	Compliant
Minimum Bend Radius	2.45 inches
UL / CSA Rated	Yes
Flame Rating	FT-1
Jacket Color	Dark Green
Twisted Pair Color Code	Grn & Wht/Grn, Org & Wht/Org, Blu & Wht/Blu, Brn & Wht/Brn
Voltage	30V
Max Operating Temp	80 degrees Celsius
Gauge	24 AWG
Stranding	19/36 TC
Insulation	Polypropylene
Conductor OD	.039 inches

### Ordering Information

Order No.	Description
90175-31-C	Standard 31 Meter Spool
90175-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 90175, please contact Customer Service.

## IEEE 1394b - 90199

### Product Outline

This high flex cable conforms to the IEEE 1394b standard.

Designed for industrial motion applications, this cable is constructed to withstand physical strain without exhibiting mechanical or electrical failures.



### Features

Cable	
Jacket	PVC
Overall Diameter	.230 inches
Overall Shield	Braid - 90% Min Coverage
RoHS Status	Compliant
Minimum Bend Radius	2.30 inches
UL / CSA Rated	Yes
Flame Rating	FT-1
Jacket Color	Dark Green
Twisted Pair Color Code	Red/Green, Blue/Orange
Discrete Color Code	Black, White
Voltage	30V
Max Operating Temp	80 degrees Celsius

Conductor – 2 Discrete Wires	
Gauge	22 AWG
Stranding	19/35 TC
Insulation	Polyethylene
OD	0.051

Conductor – 2 Twisted Pairs	
Gauge	26 AWG
Stranding	19/38 TC
Insulation	Polyethylene
Shielding	Aluminum Foil
Drain Wire	26 AWG TC
Diameter	.051 inches
Impedance	110 Ohms +/- 6 Ohms

### Ordering Information

Order No.	Description
90199-31-C	Standard 31 Meter Spool
90199-C	Custom length spool measured in feet.

For standard or custom cable assemblies fabricated with 90199, please contact Customer Service.